WLPCS
Geometry

Name: _____ Date: _____ Per.: _____

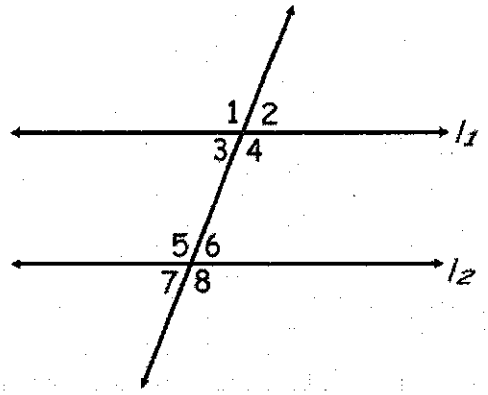
1.14 – Proofs with Parallel Lines

Corresponding Angles POSTULATE:

Theorem to prove: **Alternate Interior Angles Theorem**

Given: $l_1 \parallel l_2$

Prove: $\angle 3 \cong \angle 6$



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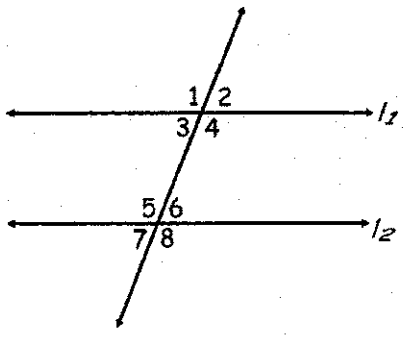
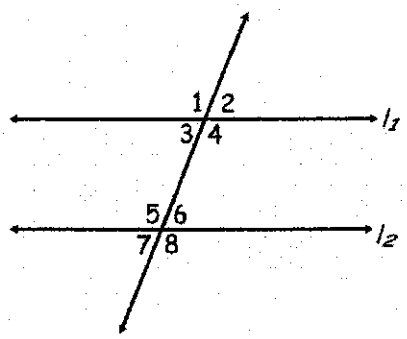
Theorem to prove: **Alternate Exterior Angles Theorem**

Given: $l_1 \parallel l_2$
Prove: $\angle 1 \cong \angle 8$



Theorem to prove: **Alternate Exterior Angles Theorem (method #2)**

Given: $l_1 \parallel l_2$
Prove: $\angle 1 \cong \angle 8$



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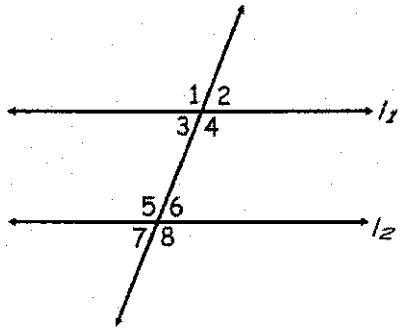
Theorem to prove: **Same Side Interior Angles Theorem**

Given: $l_1 \parallel l_2$

Prove: $\angle 4$ is supplementary to $\angle 6$



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Theorem to prove: **Same Side Exterior Angles Theorem**

Given: $l_1 \parallel l_2$

Prove: $\angle 1$ is supplementary to $\angle 7$